

## EXHIBIT 1

BHA  
7/23

*Keen Solutions, Inc.*

011 003

From: Bruce H. Baretz  
To: Duncan Brown  
Company: Advanced Technology Materials Inc.

Date: [REDACTED]  
Time: 2:28 PM  
FAX #:

**REFERENCE: White Light Light Emitting Diodes (LED)**

Duncan -

Enclosed are some samples of the Lumogen dyes already cast into PMMA sheets. These dyes may be useful, when incorporated into polycarbonate LED lenses, to attenuate and shift the light emission from UV or Blue (assuming a GaN die) to either a green, yellow, or red emission, or some combination of these emissions. An appropriate combination would, in theory, generate white light.

I will see if I can get some information on purchasing these Lumogen dyes already mixed into polycarbonate.

Bruce Baretz

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